

SAFETY DATA SHEET

1. Identification

Product identifier	eGRAF® NeoNxGen™	
Other means of identification		
SDS number	0109	
Recommended use	Thermal Management	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier/Distributor information		
Manufacturer/Supplier	NeoGraf Solutions, LLC	
	11709 Madison Ave.	
	Lakewood, OH 44107	
	+1 216-529-3777	
Contact person	Product Responsibility Manager +1 216-529-3724	
E-mail	info@neograf.com	
Emergency telephone number	For Chemical Emergency ONLY, call 3E at:	
	+1-866-519-4752, +1-760-476-3962	
	Access Code: 333366	

2. Hazard(s) identification

Not classified.
Not classified.
Not classified.
None.
None.
The substance does not meet the criteria for classification.
Observe good industrial hygiene practices.
Wash hands after handling.
Store away from incompatible materials.
Dispose of waste and residues in accordance with local authority requirements.
None known.
None.

3. Composition/information on ingredients

Substances

Chemical name	Common name and synonyms	CAS number	%
Graphite		7782-42-5	> 99
Composition comments	All concentrations are in percent by weight un percent by volume.	less ingredient is a gas. Gas	concentrations are in
4. First-aid measures			
Inhalation	Move to fresh air. Call a physician if symptom	s develop or persist.	
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.		
Eye contact	Rinse with water. Get medical attention if irrita	ation develops and persists.	

Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Use water spray to cool unopened containers.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	The product is immiscible with water and will spread on the water surface. Stop the flow of material, if this is without risk. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	

Avoid prolonged exposure. Observe good industrial hygiene practices. Precautions for safe handling Store in tightly closed container. Store away from incompatible materials (see Section 10 of the Conditions for safe storage, SDS). including any incompatibilities

No unusual fire or explosion hazards noted.

8. Exposure controls/personal protection

Occupational exposure limits

Components	Туре	Value	Form
Graphite (CAS 7782-42-5)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
US. OSHA Table Z-3 (29 CFI	R 1910.1000)		
Components	Туре	Value	
Graphite (CAS 7782-42-5)	TWA	15 mppcf	
US. ACGIH Threshold Limit	Values		
Components	Туре	Value	Form
Graphite (CAS 7782-42-5)	TWA	2 mg/m3	Respirable fraction.
US. NIOSH: Pocket Guide to	o Chemical Hazards		
US. NIOSH: Pocket Guide to Components	o Chemical Hazards Type	Value	Form
		Value 2.5 mg/m3	Form Respirable.

Appropriate engineering controls	Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Individual protection measures, s	such as personal protective equipment
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin protection Hand protection	Wear appropriate chemical resistant gloves.
Skin protection	
Other	Wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance	
Physical state	Solid.
Form	Sheet (Flexible)
Color	Black.
Odor	None.
Odor threshold	Not available.
рН	Not applicable.
Melting point/freezing point	> 5000 °F (> 2760 °C) / Not applicable.
Initial boiling point and boiling range	Not applicable.
Flash point	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not applicable.
Flammability limit - upper (%)	Not applicable.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not applicable.
Vapor density	Not applicable.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	< 0.1 % Insoluble.
Partition coefficient (n-octanol/water)	Not applicable.
Auto-ignition temperature	Not applicable.
Decomposition temperature	Not applicable.
Viscosity	Not applicable.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Percent volatile	Not applicable.

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials.
Incompatible materials	Chlorine.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity

Addie tokienty		
Components	Species	Test Results
Graphite (CAS 7782-42-5)		
Acute		
Oral		
LD50	Rat	> 10000 mg/kg
Skin corrosion/irritation	Prolonged skin contact r	nay cause temporary irritation.
Serious eye damage/eye irritation	Direct contact with eyes	may cause temporary irritation.
Respiratory or skin sensitization	n	
Respiratory sensitization	Not a respiratory sensitiz	zer.
Skin sensitization	This product is not expe	cted to cause skin sensitization.
Germ cell mutagenicity	No data available to indi mutagenic or genotoxic.	cate product or any components present at greater than 0.1% are
Carcinogenicity	Not classifiable as to car	cinogenicity to humans.
IARC Monographs. Overall	Evaluation of Carcinoger	licity
Not listed.		
NTP Report on Carcinogens	5	
Not listed.		
OSHA Specifically Regulate Not regulated.	ed Substances (29 CFR 19	J10.1001-1053)
Reproductive toxicity	This product is not expe	cted to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard	L.
Chronic effects	Prolonged inhalation ma	y be harmful.
12. Ecological information	ı	
Ecotoxicity		fied as environmentally hazardous. However, this does not exclude the equent spills can have a harmful or damaging effect on the environment.
Persistence and degradability	No data is available on t	he degradability of this substance.
eGRAF® NeoNxGen™		SDS US
047555 Vorsion #: 01 Povision d	lato: lecuo dato: 04 Eobru	2019 A / F

Bioaccumulative potential	No data available.
Mobility in soil	The product is insoluble in water.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

US federal regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Toxic Substances Control This substance is on the TSCA 8(b) inventory and is designated "active".

Act (TSCA)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No chemical

SARA 313 (TRI reporting) Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated.

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

Graphite (CAS 7782-42-5)

US. New Jersey Worker and Community Right-to-Know Act

Graphite (CAS 7782-42-5)

US. Pennsylvania Worker and Community Right-to-Know Law

Graphite (CAS 7782-42-5)

US. Rhode Island RTK

Graphite (CAS 7782-42-5)

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*	
Australia	Australian Inventory of Chemical Substances (AICS)	Yes	
Canada	Domestic Substances List (DSL)	Yes	
Canada	Non-Domestic Substances List (NDSL)	No	
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes	
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes	
Europe	European List of Notified Chemical Substances (ELINCS)	No	
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes	
Korea	Existing Chemicals List (ECL)	Yes	
New Zealand	New Zealand Inventory	Yes	
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes	
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes	
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes	
*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).			

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	04-February-2019
Revision date	-
Version #	01
NFPA ratings	
List of abbreviations	LD50: Lethal Dose, 50%. PEL: Permissible Exposure Limit. TWA: Time Weighted Average Value.
Disclaimer	NeoGraf Solutions cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.
	This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.